

**Amendments to the specification**

Please amend the specification at page 44, line 22, by adding the following new paragraphs:

*Example 12. Exemplary computer code.* Exemplary computer code from the file “Input\_output\_dev.pm” corresponding to displays such as shown in Figures 7-12:

```
# PRINT THE CUTOFF POPUP MENU
@formerrows = ();

push (@formerrows, th("DATA:") . th(font({
    -color=>'yellow'}, $global{"data_name"}))) );

push (@formerrows, th("DISPLAY:") . th(popup_menu(
    -name=>'view',
    -value=>['Threshold', 'Interval', 'Graphical'],
    -default=>'Graphical')));

push (@formerrows, th("CALCULATE:") . th(popup_menu(
    -name=>'calc_method',
    -value=>['by Accession', 'by SNPs'],
    -default=>'by Accession')));

push (@formerrows, th("CORRELATE:") . th(popup_menu(
    -name=>'correl_method',
    -value=>['Weighted', 'Unweighted'],
    -default=>'Weighted')));

push (@formerrows, th("CUTOFF:") . th(popup_menu(
    -name=>'cutoff',
    -value=>['5%', '10%', '15%', '20%', '25%', '30%', '40%',
        '50%', 'NONE'],
    -default=>'20%')));

push (@formerrows, th("WINDOW (cm):") . th(popup_menu(
    -name=>'window_size',
    -value=>['10', '20', '30', '40', '50'],
    -default=>'30')));

print center table ({-border=>'2', -align=>CENTER, -
    bgcolor=>'black'}, Tr(\@formerrows)), p, p;
```

Exemplary computer code from the file “Input\_output\_dev.pm” for displaying the cutoff line that is found in any of Figures 7-12:

```
# DRAW PCT CUTOFF LINE
DrawPct_Cut ($closest_pct_value, $im);
    $png_data = $im->png;
    $global{"timestamp"} = time;
    open (DISPLAY, ">$image_dir/$global{'timestamp'}.png");
    binmode DISPLAY;
    print DISPLAY $png_data;
```

```
        close DISPLAY;
    }
    sub DrawPct_Cut ($closest_pct_value, $im)
    {
        my $pct = $_[0];
        my $image = $_[1];

        $image->dashedLine($indent+15, $pct, $length, $pct,
            $color{"orange"});
        $image->dashedLine($indent+15, $pct+1, $length, $pct+1,
            $color{"orange"});
        # $image->dashedLine($indent+15, $pct+2, $length, $pct+2,
        #     $color{"orange"});
        $image->string(gdGiantFont, $indent+5, $pct-14,
            $global{'cutoff'}, $color{"orange"});
    }
}
```